

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant(s): Azadet et al.
Case: 13-5
Serial No.: 09/834,668
Patent No.: 7,000,175
Issue Date: February 14, 2006
Group: 2133
Examiner: Joseph D. Torres

Title: Method and Apparatus for Pipelined Joint Equalization and Decoding for Gigabit Communications

REQUEST FOR CERTIFICATE OF CORRECTION OF
PATENT FOR PTO MISTAKE(S) UNDER 37 C.F.R. 1.322(a)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

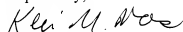
Sir:

In accordance with 37 C.F.R. §1.322, the patentee for the above-identified patent hereby requests the issuance of a Certificate of Correction with respect to errors in the above-identified patent.

The errors are set forth on the proposed Certificate of Correction (PTO-1050) submitted herewith, in duplicate.

There is no additional fee due in conjunction with this Certificate of Correction. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Deposit Account No. 50-0762** as required to correct the error.

Respectfully,



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Date: February 25, 2010

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,000,175
DATED : February 14, 2006
INVENTOR(S) : Azadet et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the specification, column 8, line 31, before "need not" replace " $\hat{a}_{n-K-1}(\rho_{n-1})$ " with " $\hat{a}_{n-K-1}(\rho'_{n-1})$ ".

Column 8, line 33, after "state" replace " ρ_{n-1} " with " ρ'_{n-1} ".

Column 8, line 35, after "state" replace " ρ_{n-1} " with " ρ'_{n-1} ".

Column 8, line 52, before "is" and after "where" replace " $\Lambda_n(z_{n,m}, \rho'_n)$ " with " $\Lambda_n(z_n, a_n, \rho'_n)$ ".

Column 9, line 21, after "symbols" replace " $(\hat{a}_{n-M-1}\rho'_{n-M})$ " with " $(\hat{a}_{n-M-1}(\rho'_{n-M}))$ ".

Column 9, line 22, before "are identical" replace " $\hat{a}_{n-M-K}\rho'_{n-M})$ " with " $(\hat{a}_{n-M-K}(\rho'_{n-M}))$ ".

Column 9, line 24, before "is fixed" replace " $v_n\rho'_{n-M})$ " with " $v_n(\rho'_{n-M})$ ".

Column 14, line 3, after "coefficients" replace " $\{f^{3,j}\}$ " with " $\{f_{3,j}\}$ ".

Column 15, line 7, replace " $f_1\hat{a}_{n,j}$ " with " $f_1\hat{a}_{n,j}$ ".

Column 15, line 28, after "symbol" and before "is selected" replace " a_{n+1} " with " $a_{n+1,j}$ ".

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PATENT NO. 7,000,175

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PATENT NO : 7,000,175
DATED : February 14, 2006
INVENTOR(S) : Azadet et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the specification, column 15, beginning on line 66, the following heading and paragraph should be re-inserted:

-- Survivor Memory Unit

The merge depth of the exemplary 1000BASE-T trellis code is 14. The SMU must be implemented using the register-exchange architecture described in R. Cypher and C.B. Shung, "Generalized Trace-Back Techniques for Survivor Memory Management in the Viterbi Algorithm," J. VLSI Signal Processing, Vol. 5, 85-94 (1993), as the survivor symbols corresponding to the time steps $n-12, n-11, \dots, n$ are needed in the DFU without delay and the latency budget specified in the 1000BASE-T standard is very tight. The proposed register-exchange architecture with merge depth 14 is shown in FIG. 18, where only the first row storing the survivor sequence corresponding to state zero is shown. $\underline{SX}_n(\rho_n)$ denotes the 4D symbol decision corresponding to 4D subset SX and a transition from state ρ_n . The multiplexers in the first column select the 4D survivor symbols $\{\hat{\underline{a}}_n(\rho_{n+1})\}$, which are part of the survivor path into $\{\rho_{n+1}\}$. These 4D survivor symbols are required in the ISI-MUXU 1416 and 1D-BM-MUXU 1428 to select the appropriate partial ISI estimates and 1D branch metrics, respectively. The survivor symbols $\{\hat{\underline{a}}_{n-1}(\rho_n), \hat{\underline{a}}_{n-2}(\rho_n), \dots, \hat{\underline{a}}_{n-12}(\rho_n)\}$ which are stored in the registers corresponding to the first, second, ... 12th column are used in the LA-DFU 1412 to compute the partial ISI estimates $\underline{v}_{n+2,j}(\rho_n)$. --

In claim 3, column 16, line 36, before "from" replace "decisions" with -- decision --.

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